



File:	GE-004
Project:	216
Order:	6822

Corporate Environmental Programs
 General Electric Company
 100 Woodland Avenue, Pittsfield, MA 01203

March 9, 2000



SDMS DocID 6822

Mr. Dean Tagliaferro
 US Environmental Protection Agency
 One Congress Street, Suite 1100
 Boston, MA 02114-2023

Ms. Susan Steenstrup
 Department of Environmental Protection
 436 Dwight Street
 Springfield, MA 01103

**Re: Upper 1/2-Mile Reach of Housatonic River Removal Action
 Monthly Report - February 2000**

Dear Mr. Tagliaferro and Ms. Steenstrup:

In accordance with the approved Removal Action Work Plan - Upper 1/2 Mile Reach of Housatonic River, enclosed please find the February 2000 Monthly Report.

Please call with any questions.

Yours truly,

William A. Horne / for

Andrew T. Silfer, P.E.
 Senior Technical Manager

- cc: J.R. Bieke, Esquire, Shea & Gardner
 M.T. Carroll, GE
 T. Conway, EPA
 R. Goff, ACE
 W.A. Horne, GE
 H. Inglis, EPA
 J.H. Maxymillian, Maxymillian Technologies
 S. Messur, BBL
 K.C. Mitkevicius, USACE
 T. O'Brien, MA EOE
 B. Olson, EPA
 A.J. Thomas, Esquire, GE
 A. Weinberg, DEP

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1.0 Background:

Progress slowed on the Upper ½ Mile Reach Removal Action through February 2000. Maxymillian Technologies continued with removal and restoration activities in Cell C, which is now complete excluding a 35-ft. downstream/western section where efforts have been ongoing to recover the dense non-aqueous-phase liquid (DNAPL) with coal-tar characteristics in that section, as discussed in the January 2000 monthly report. Progress throughout the month of February continued to be hindered by extreme weather conditions, snow storms, and equipment freeze-ups. Progress was further hindered by the pocket of DNAPL in Cell C, and efforts to address that DNAPL. A significant (1 to 2 year) flood event was experienced on February 28, 2000, the flood contingency plan was enacted, no oil sheen was visible and no release occurred. Weekly status meetings were held on 2/8 and 2/15, no meeting was scheduled for 2/21, and the 2/28 meeting was cancelled as agreed to by EPA due to the flood conditions.

2.0 Chronological description of the tasks performed:

Refer to the diagram (Exhibit A) referenced in Section 4.0 and attached to this report for an orientation of the sheetpile cells and their respective locations. In the month of February, GE Bldgs. 33X and 65 were used as temporary storage facilities for TSCA and non-TSCA material.

Removal and restoration activities continued in Cell C (excluding the DNAPL area at the west downstream end of this cell). Restoration during February was advanced downstream approximately 280 feet (out of 310 feet) as approved by EPA. Activities included the following general sequence of events:

- Maintaining de-watered conditions;
- Layout of excavation limits;
- Surveying of existing elevations;
- Sediment and bank soil removal;
- Stabilization of bank soils and sediment material excavation in the upstream part of Cell C, including backfill;
- Excavation of additional bank soils and sediment material in the upstream part of Cell C, including backfill;
- Verification of excavation limits;
- Grouting the source control sheetpile adjacent to Cell C;
- Restoration including placement of fabric, sand, fabric/geogrid, and rock;
- Verification of placement limits; and,
- Containment and collection of DNAPL in Cell C.

2.0 Chronological description of the tasks performed (continued):

The restoration was suspended on February 8, due to the unknown extent of the DNAPL area. The grouting subcontractor de-mobilized and left the site on February 4, 2000 and re-mobilized to the site on February 22, 2000, as discussed below.

Through February 27, 2000 a total of approximately 571 gallons of DNAPL had been collected. DNAPL recovery efforts and maintenance of oil absorbent booms and pads were conducted daily.

In addition to restoring Cell C up to the DNAPL area, the focus during the month of February was on resolution of the DNAPL issue. Following the 4-foot excavation in this area on January 28, 2000, as called for in the ½ Mile Removal Action Work Plan, a preliminary subsurface investigation program was initiated. This consisted of performing a total of three borings in the area where DNAPL was visible. The first two cores hit refusal at about 1.5 feet of penetration and recovered oily sediment. These two cores were installed by pushing a lexan tube into the sediment. More successful results were obtained from the third boring. By using an AMS direct push probe sampler, samples were recovered from 8 feet below the river bottom. These results showed a clean layer of very fine sand beneath approximately 4 feet of sediments containing DNAPL. Upon completion of these preliminary borings, the visible DNAPL area was further contained by placing a 3-ft. diameter section of pipe around the apparent surface source. This temporary effort further isolated the DNAPL from the rest of Cell C and allowed better access for recovering DNAPL without disturbing the surrounding sediments.

This preliminary information was used to develop a DNAPL Investigation Plan, which was submitted to the EPA for review on February 8, 2000. The proposed plan received conditional approval from the EPA on February 11, 2000. On February 14, 2000, the approved plan was initiated. Within 7 days, in Cells C and D, a total of 14 borings were advanced to depths ranging from 8 to 11 feet below the excavated river bottom and five piezometers or well points were installed at locations where the borings showed evidence of DNAPL. On February 18, 2000 during the sampling in Cell D, an oil sheen was observed in an area not previously reported. GE promptly reported this observation to MDEP, EPA, EPA Region 1 Spill Response, and the National Response Center (NRC). A release tracking number (520277) was issued from the NRC. MDEP did not issue a new release notification number.

2.0 Chronological description of the tasks performed (continued):

Summarizing the investigation efforts, the DNAPL was limited to a fairly small area (1 to 4 feet deep) in Cell C, DNAPL was not detected in Cell D, and only one of the five well points had any measurable amount of DNAPL. After the borings in Cell C were complete, a new sheetpile wall in Cell C was installed along a row of "clean" borings. This wall served as a substantial barrier separating the DNAPL area from the rest of Cell C. The restoration, previously on hold, resumed and on February 22, 2000, the grouting subcontractor re-mobilized to seal 50 LF (25 joints) of the permanent source control sheetpiles up to the new sheetpile wall. At this point, the normal restoration process was advanced up to this new sheetpile wall. On February 26, 2000, the sediment and bank restoration, up to the new wall, was completed.

On February 25, 2000 substantial rain and snowmelt increased the elevation of the river by 2 feet up to elevation 974. The water began to fall but record warm temperatures on February 27, 2000 caused the river to rise again. Additional rainfall on February 27 and 28, 2000 produced flood conditions. GE and contractor crews were mobilized at 1:00 AM February 28, 2000. The river was within 12 inches of overtopping the sheetpile, continuing to rise, and significant rain was visible on weather radar, moving towards Pittsfield. At 2:00 AM, notification of a threat of a release was provided to MDEP, EPA, EPA Region 1 Spill Response, and the NRC. A release tracking number (521326) was issued from the NRC. MDEP did not issue a new release notification number.

The flood contingency plan was implemented. All materials were removed from the cell. The geotextile layer was not placed due to personnel safety concerns due to the depth of water in the cell and the potential for overtopping. The river continued to rise and all efforts were focused on water control in the DNAPL area. Water from this area was pumped to GE's water treatment plant at a rate of 400 gallons per minute (gpm), which maximized the capacity of the water treatment plant. Accordingly, an additionally 200 gpm were pumped into Cell D with EPA concurrence. The river crested at about 3:00 PM on February 28, with a peak flow of 725 cfs (between the 1 and 2 year flood events). Water entered the DNAPL area of Cell C through an approximately 3-foot wide notch in the sheetpile that was designed to accommodate a temporary channel diverting and discharging flow from a NPDES outfall. The height of the water entering the cell was approximately 4 inches above the design sheetpile elevation of 975. At this point, as a precaution, oil absorbent booms were placed around the perimeter of the DNAPL part of Cell C.

At approximately 2:00 PM, an on-site meeting was held to evaluate the flooding conditions. EPA, MDEP, ACOE, and GE all agreed that during the peak flow no oil sheen was visible and as such no release had occurred.

3.0 Number of samples collected:

In the month of February, particulate air monitoring results were collected from February 1 through February 11 and PCB air monitoring results were not collected. The EPA approved a request to suspend all air sampling as of February 12, until excavation activities resumed. The available results are attached to this report (refer to Table 1B for particulate results).

Water column monitoring for total suspended solids (TSS) was conducted on a daily basis. Water column PCB samples were collected once every 2 weeks on February 2 and 17, 2000. The TSS and PCB results received to date for the month of February are attached to this report (Table 1A). Analytical results (PCB and TPH) from sampling the backfill soil source conducted on February 2, 2000, are attached to this report (Table 2).

The analytical results from testing the air in the temporary storage facility ("Building 33X headspace data"), is attached to this report (Table 3). The DNAPL was analyzed further for RCRA metals. Samples of the DNAPL collected on February 20, 2000, from the ongoing recovery efforts are attached to this report (Table 4). Sample results from the mixture of DNAPL, water and DNAPL-saturated sediments, resulting from the January 28, 2000 excavation, are attached to this report (Table 5). Additionally area air monitoring of the DNAPL area and the west end of Cell C, were conducted at the site on February 11, 2000. These results are also attached to this report (Table 6).

4.0 Diagrams associated with the tasks performed:

A diagram labeled as Exhibit A shows the location of the Cells (A, B, C, D and E) and is attached to this report for reference. Additionally, Exhibit B shows the area where DNAPL may exist based on the results of the DNAPL investigation plan as submitted by GE.

5.0 Identification of any reports received and prepared:

During the month of February, meeting summaries from various status meetings were submitted to the EPA, MDEP and EOEA. Additionally, construction material specifications as referenced in Section 3.0 were submitted to the EPA, MDEP, and EOEA. A DNAPL investigation plan was submitted on February 8, 2000 and conditionally approved on February 11, 2000

For work completed in January 2000, monthly reports, as required by the Consent Decree and the Upper ½ Mile River Removal Action Work Plan were both submitted on February 9, 2000.

6.0 Photo documentation of activities performed: See attached Figure 1

7.0 Brief description of activities to be performed in March 2000:

Throughout the upcoming weeks in the month of March, the following activities are anticipated to take place:

- GE will continue to recover DNAPL on a daily basis;
- A DNAPL remediation plan was submitted on March 3, 2000 to the EPA for review and approval. Upon EPA approval, that plan will be implemented;
- Communication between GE, EPA and MDEP will continue on a regular basis to provide updates on the DNAPL situation and clarify the details of the remedial work, as needed;
- Restoration activities in the remainder of Cell C will be undertaken after the DNAPL area has been remediated;
- Flushing and sealing/grouting activities for the East Street Area 2 South source control sheetpile will be delayed until the DNAPL remediation plan has been completed; and,
- Water column monitoring will continue and air monitoring will resume prior to beginning any further excavation in the Upper ½ Mile Reach.

8.0 Attachments to this report:

- Table 1A - Water column monitoring TSS results;
- Table 1B - Particulate air monitoring results and PCB air monitoring results;
- Table 2 - Backfill soil sampling results (TPH and PCB)
- Table 3 - Air sampling results for selected volatile and semi-volatile constituents from the temporary storage area (Bldg. 33X);
- Table 4 - Additional analytical result from the DNAPL (RCRA Metals)
- Table 5 - DNAPL, water and DNAPL saturated-sediments sampled on February 8, 2000 (from the 4-ft. excavation performed on January 28, 2000).
- Table 6 - Area air sampling results from the DNAPL section of Cell C (sampled on February 11, 2000).
- Exhibit A - Diagram to show the locations of cells within the upstream part of the Upper ½ Mile Reach Removal Action;
- Exhibit B - Diagram of the DNAPL area based on the results of the DNAPL investigation program;
- Figure 1 - Photo documentation sheet;

TABLE 1 A

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FEBRUARY 2000

UPPER 1/2 MILE REACH REMOVAL ACTION
HOUSATONIC RIVER PCB/TSS/TURBIDITY MONITORING DURING CONSTRUCTION

Location	Date	Water Depth (ft)	Water Temp. (°C)	Flow (cfs)	Turbidity (ntu) ¹³			Sample ID	Total PCB Concentration ¹⁴ (ug/l)	Filtered PCB Concentration (ug/l)	TSS (mg/l)
					High	Low	Daily Composite				
Upstream of Newell St. Bridge	2/1/00	2.5	1.0	NS	NS	NS	NS	---	---	---	---
Downstream of Lyman St. Bridge	2/1/00	2.9	1.0	NS	NS	NS	NS	---	---	---	---
Upstream of Newell St. Bridge	2/2/00	2.1	1.0	NS	NS	NS	NS	---	---	---	---
Downstream of Lyman St. Bridge	2/2/00	2.7	1.0	NS	NS	NS	NS	---	---	---	---
Upstream of Newell St. Bridge	2/3/00	1.9	1.0	44	4	3	NS	HR-2-3-00-U1	ND(0.0250)	ND(0.0250)	2.8
Downstream of Lyman St. Bridge	2/3/00	2.5	1.0	45	3	3	NS	HR-2-3-00-D1	ND(0.0250)	ND(0.0250)	1.9
Upstream of Newell St. Bridge	2/4/00	1.9	3.0	NS	3	3	NS	---	---	---	---
Downstream of Lyman St. Bridge	2/4/00	2.5	3.0	NS	3	3	NS	---	---	---	---
Upstream of Newell St. Bridge	2/7/00	1.9	2.0	NS	NS	NS	NS	---	---	---	---
Downstream of Lyman St. Bridge	2/7/00	2.5	2.0	NS	NS	NS	NS	---	---	---	---
Upstream of Newell St. Bridge	2/8/00	1.9	0.0	NS	NS	NS	NS	---	---	---	---
Downstream of Lyman St. Bridge	2/8/00	2.5	0.0	NS	NS	NS	NS	---	---	---	---
Upstream of Newell St. Bridge	2/9/00	1.9	1.0	---	4	2	3	---	---	---	---
Downstream of Lyman St. Bridge	2/9/00	2.5	1.0	---	4	2	3	---	---	---	---
Upstream of Newell St. Bridge	2/10/00	2.0	1.0	---	5	2	3	---	---	---	---
Downstream of Lyman St. Bridge	2/10/00	2.6	1.0	---	5	2	3	---	---	---	---
Upstream of Newell St. Bridge	2/11/00	2.0	1.0	NS	NS	NS	NS	---	---	---	---
Downstream of Lyman St. Bridge	2/11/00	2.6	1.0	NS	NS	NS	NS	---	---	---	---
Upstream of Newell St. Bridge	2/14/00	2.5	1.0	---	56	13	33	---	---	---	---
Downstream of Lyman St. Bridge	2/14/00	2.8	1.0	---	41	18	39	---	---	---	---
Upstream of Newell St. Bridge	2/15/00	2.8	1.0	---	10	4	6	---	---	---	---
Downstream of Lyman St. Bridge	2/15/00	3.1	1.0	---	20	5	6	---	---	---	---
Upstream of Newell St. Bridge	2/16/00	2.7	0.0	---	6	2	3	---	---	---	---
Downstream of Lyman St. Bridge	2/16/00	3.1	0.0	---	4	2	3	---	---	---	---
Upstream of Newell St. Bridge	2/17/00	2.6	0.0	82	8	2	3	HR-2-17-00-U1	ND(0.0250)	ND(0.0250)	5.5
Downstream of Lyman St. Bridge	2/17/00	3.0	0.0	96	3	2	2	HR-2-17-00-D1	ND(0.0250)	ND(0.0250)	2.4
Upstream of Newell St. Bridge	2/18/00	2.5	0.0	NS	NS	NS	NS	---	---	---	---
Downstream of Lyman St. Bridge	2/18/00	2.9	0.0	NS	NS	NS	NS	---	---	---	---
Upstream of Newell St. Bridge	2/21/00	2.2	1.0	---	10	2	4	---	---	---	---
Downstream of Lyman St. Bridge	2/21/00	2.6	1.0	---	4	2	3	---	---	---	---
Upstream of Newell St. Bridge	2/22/00	2.2	1.0	---	3	1	2	---	---	---	---
Downstream of Lyman St. Bridge	2/22/00	2.6	1.0	---	2	1	2	---	---	---	---

TABLE 1 A

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FEBRUARY 2000

UPPER 1/2 MILE REACH REMOVAL ACTION
HOUSATONIC RIVER PCB/TSS/TURBIDITY MONITORING DURING CONSTRUCTION

Location	Date	Water Depth (ft)	Water Temp. (°C)	Flow (cfs)	Turbidity (ntu) ¹³			Sample ID	Total PCB Concentration ¹⁴ (ug/l)	Filtered PCB Concentration (ug/l)	TSS (mg/l)
					High	Low	Daily Composite				
Upstream of Newell St. Bridge	2/23/00	2.2	1.0	---	8	3	4	---	---	---	---
Downstream of Lyman St. Bridge	2/23/00	2.6	1.0	---	6	2	3	---	---	---	---
Upstream of Newell St. Bridge	2/24/00	1.8	2.0	---	15	5	10	---	---	---	---
Downstream of Lyman St. Bridge	2/24/00	2.7	2.0	---	14	5	9	---	---	---	---
Upstream of Newell St. Bridge	2/25/00	2.1	3.0	---	23	5	15	---	---	---	---
Downstream of Lyman St. Bridge	2/25/00	2.8	3.0	---	36	5	14	---	---	---	---
Upstream of Newell St. Bridge	2/28/00	>4.0	3.0	---	120	25	43	---	---	---	---
Downstream of Lyman St. Bridge	2/28/00	>4.0	3.0	---	95	28	64	---	---	---	---
Upstream of Newell St. Bridge	2/29/00	>4.0	2.0	---	24	7	15	---	---	---	---
Downstream of Lyman St. Bridge	2/29/00	>4.0	2.0	---	37	9	18	---	---	---	---

Notes:

1. PCB and TSS samples were collected by Blasland, Bouck & Lee, Inc. and analyzed by Northeast Analytical, Inc.
2. Water depth taken at sampling point (i.e. middle of river).
3. ft - Feet
4. °C - degrees Celsius
5. cfs - cubic feet per second
6. ntu - nephelometric turbidity units
7. --- - No data obtained
8. ND(0.25) - Compound was analyzed for but not detected at the quantitation limit indicated in parentheses.
9. NR - Not yet reported
10. ug/l - micrograms per liter
11. mg/l - milligrams per liter
12. [] - Duplicate sample result
13. Turbidity Action Level = Turbidity downstream ≤ Turbidity upstream + 50 ntu
14. PCB Action Level = PCBs downstream ≤ PCBs upstream + 5 ug/l
15. NS - Not sampled due to frozen river conditions.

MONTH OF FEBRUARY, 2000

Date	Sampler Location	Average Site Concentration (mg/m ³)	BM1 ¹ (mg/m ³)	Average Period (Hours:Min)	Predominant Wind Direction
02/01/2000	AM2 (south side of river)	0.017	0.012	7:00 ¹	WSW
02/02/2000	AM2 (south side of river)	0.008	0.004	9:30	WNW
02/03/2000	AM2 (south side of river)	0.013	0.010	9:00	SSW
02/04/2000	AM2 (south side of river)	0.019	0.012	9:15	Variable
02/07/2000	AM2 (south side of river)	0.018	0.014	9:15	W
02/08/2000	AM2 (south side of river)	0.017	0.008	9:00	WSW
02/09/2000	AM2 (south side of river)	0.020	0.017	10:30	SW
02/10/2000	AM2 (south side of river)	0.050	0.041	9:30	ESE
02/11/2000 ²	AM2 (south side of river)				
Notification Level		0.120			

BM-1: Background monitoring location west of Bldg. 42.

AM-2: Air monitoring location near tennis courts within Lakewood Park, southeast bank.

¹ Sampling period was shortened due to precipitation/threat of precipitation.

² Sampling was not performed due to precipitation/threat of precipitation.

TABLE 2

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

BACKFILL SOIL SAMPLING
PCB/TPH DATA RECEIVED DURING FEBRUARY 2000
UPPER 1/2 MILE REACH

(Results are presented in dry-weight parts per million, ppm)

Sample ID	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs	TPH
BSG-BF-2	2/2/00	ND(0.0534) [ND(0.0548)]	ND(0.0534) [ND(0.0548)]	ND(0.0534) [ND(0.0548)]	ND(0.0534) [ND(0.0548)]	ND(0.0534) [ND(0.0548)]	ND(0.0534) [ND(0.0548)]	ND(0.0534) [ND(0.0548)]	ND(0.0534) [ND(0.0548)]	ND(100) [ND(100)]

Notes:

1. Samples were collected by Blasland, Bouck & Lee, Inc. and submitted to Northeast Analytical Services, Inc. for analysis of total PCBs and Total Petroleum Hydrocarbons (TPH).
2. ND(0.10) - Analyte was not detected. The value in parentheses is the associated detection limit.
3. Blind duplicate results are presented in brackets.

TABLE 3

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

BUILDING 33-X HOUSATONIC RIVER SOIL SAMPLING
HEADSPACE DATA RECEIVED DURING FEBRUARY 2000
UPPER 1/2 MILE REACH

Parameter	Sample ID: Date Collected: Units:	33X-HRS-1 1/20/00 (ug/l/gm)	33X-HRS-2 1/20/00 (ug/l/gm)
Benzene		0.053	ND(0.01)
Toluene		0.066	ND(0.01)
Naphthalene		0.033	ND(0.01)
Fluoranthene		ND(0.01)	ND(0.01)
Acenaphthylene		ND(0.01)	ND(0.01)

Notes:

1. Samples were collected by Blasland, Bouck & Lee, Inc. and submitted to Adirondack Environmental Services, Inc. for headspace analysis of select volatile and semivolatile constituents.
2. ND(0.01) - Analyte was not detected. The value in parentheses is the associated detection limit.

TABLE 4

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTSDNAPL DRUM RCRA METALS SAMPLE DATA
RECEIVED DURING FEBRUARY 2000
UPPER 1/2 MILE REACH*(Results are presented in parts per million, ppm)*

Parameter	Sample ID: Date Collected:	HR-DNAPL-COMP-1 2/20/00
Arsenic		4.72
Barium		0.500
Cadmium		ND(0.250)
Chromium		ND(0.250)
Lead		6.96
Mercury		0.0900
Selenium		1.09
Silver		ND(1.00)

Notes:

- 1) Sample was collected by Blasland, Bouck & Lee, Inc., and submitted to Adirondack Environmental Services, Inc. for analysis of RCRA metals.
- 2) ND - Analyte was not detected. The value in parentheses is the practical quantitation limit (PQL).

TABLE 5

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

DNAPL SEDIMENT SAMPLE DATA
RECEIVED DURING FEBRUARY 2000
UPPER 1/2 MILE REACH
(Results in ppm, dry weight)

Sample ID:	HR-DNAPL-SED-1
Date Collected:	02/08/00
Volatile Organics	
Benzene	12
Ethylbenzene	60
Toluene	51
Xylenes (total)	48
PCBs	
None Detected	ND(1.0)
Semivolatile Organics	
2-Methylnaphthalene	300
Acenaphthylene	710
Anthracene	180
Fluoranthene	200
Fluorene	220
Naphthalene	1500
Phenanthrene	630
Pyrene	360
Inorganics	
Barium	14.0
Chromium	30.0
Lead	10.3
Mercury	0.0600

Notes:

- 1) Samples were collected by Blasland, Bouck & Lee, Inc., and were submitted to Adirondack Environmental Services, Inc. for analysis of PCBs, volatiles, semivolatiles, and RCRA metals.
- 2) ND - Analyte was not detected. The value in parentheses is the practical quantitation limit (PQL).
- 3) Only those constituents detected in at least one sample are summarized.



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AIR Sampling

TABLE 6

*Area air sampling
from the DNAPL
part of cell C*

LABORATORY REPORT

for

GENERAL ELECTRIC COMPANY ***
BUILDING 64, GATE G4
EAST STREET
PITTSFIELD, MA 01201

Attention: AES ENG. DEPT.

Purchase Order #: 000121EA

Report date: 02/14/00
Number of samples analyzed: 9
AES Project ID: 000211HA
Invoice #: 209665

ELAP ID#: 10709

Albany, NY • Saratoga Springs, NY • New Haven, CT

AIHA ID#: 7866
Page 1



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CLIENT: GENERAL ELECTRIC COMPANY ***

Date Sampled: 02/11/00

CLIENT'S SAMPLE ID: B-6

Date sample received: 02/11/00

AES sample #: 000211HA01

Samples taken by: T.L.Abbott AES Location: GE Pittsfield composite

MATRIX: Air

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTES REF</u>	<u>TEST DATE</u>
Air Volume		73	Liters	TA	02/11/00
Benzene	Niosh-1500	<0.14	mg/m3	TN-GCC-34	02/13/00
Cyclohexane	Niosh-1500	<0.14	mg/m3	TN-GCC-34	02/13/00
Cyclohexene	Niosh-1500	<0.14	mg/m3	TN-GCC-34	02/13/00
Heptane	Niosh-1500	<0.14	mg/m3	TN-GCC-34	02/13/00
Hexane	Niosh-1500	<0.14	mg/m3	TN-GCC-34	02/13/00
Methyl Cyclohexane	Niosh-1500	<0.14	mg/m3	TN-GCC-34	02/13/00
Octane	Niosh-1500	<0.14	mg/m3	TN-GCC-34	02/13/00
Pentane	Niosh-1500	<0.14	mg/m3	TN-GCC-34	02/13/00
Toluene	Niosh-1500	<0.14	mg/m3	TN-GCC-34	02/13/00
Benzene	Niosh 1501	<0.14	mg/m3	TN-GCC-34	02/13/00
Cumene	Niosh-1501	<0.14	mg/m3	TN-GCC-34	02/13/00
p-tert-Butyltoluene	Niosh-1501	<0.14	mg/m3	TN-GCC-34	02/13/00
Ethylbenzene	Niosh-1501	<0.14	mg/m3	TN-GCC-34	02/13/00
a-Methylstyrene	Niosh-1501	<0.14	mg/m3	TN-GCC-34	02/13/00
Naphthalene	Niosh-1501	<0.14	mg/m3	TN-GCC-34	02/13/00
Styrene	Niosh-1501	<0.14	mg/m3	TN-GCC-34	02/13/00
Toluene	Niosh-1501	<0.14	mg/m3	TN-GCC-34	02/13/00
Vinyltoluene	Niosh-1501	<0.14	mg/m3	TN-GCC-34	02/13/00
Xylenes, Total	Niosh-1501	<0.14	mg/m3	TN-GCC-34	02/13/00



Experience is the solution

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CLIENT: GENERAL ELECTRIC COMPANY ***

Date Sampled: 02/11/00

CLIENT'S SAMPLE ID: B-6

Date sample received: 02/11/00

AES sample #: 000211HA01

Samples taken by: T.L.Abbott AES Location: GE Pittsfield

MATRIX: Air

composite

continued:

PARAMETER PERFORMEDMETHODRESULTUNITSNOTEBOOK REFTEST DATE

Total Hydrocarbons

Niosh-1501

<1.4

mg/m3

TN-GCC-34

02/13/00



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CLIENT: GENERAL ELECTRIC COMPANY ***

CLIENT'S SAMPLE ID: B-15

AES sample #: 000211HA02

Date Sampled: 02/11/00

Date sample received: 02/11/00

Samples taken by: T.L.Abbott AES Location: GE Pittsfield composite
MATRIX: Air

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Air Volume		79	Liters	TA	02/11/00
Benzene	Niosh-1500	<0.13	mg/m3	TN-GCC-34	02/13/00
Cyclohexane	Niosh-1500	<0.13	mg/m3	TN-GCC-34	02/13/00
Cyclohexene	Niosh-1500	<0.13	mg/m3	TN-GCC-34	02/13/00
Heptane	Niosh-1500	<0.13	mg/m3	TN-GCC-34	02/13/00
Hexane	Niosh-1500	<0.13	mg/m3	TN-GCC-34	02/13/00
Methyl Cyclohexane	Niosh-1500	<0.13	mg/m3	TN-GCC-34	02/13/00
Octane	Niosh-1500	<0.13	mg/m3	TN-GCC-34	02/13/00
Pentane	Niosh-1500	<0.13	mg/m3	TN-GCC-34	02/13/00
Toluene	Niosh-1500	<0.13	mg/m3	TN-GCC-34	02/13/00
Benzene	Niosh 1501	<0.13	mg/m3	TN-GCC-34	02/13/00
Cumene	Niosh-1501	<0.13	mg/m3	TN-GCC-34	02/13/00
p-tert-Butyltoluene	Niosh-1501	<0.13	mg/m3	TN-GCC-34	02/13/00
Ethylbenzene	Niosh-1501	<0.13	mg/m3	TN-GCC-34	02/13/00
a-Methylstyrene	Niosh-1501	<0.13	mg/m3	TN-GCC-34	02/13/00
Naphthalene	Niosh-1501	<0.13	mg/m3	TN-GCC-34	02/13/00
Styrene	Niosh-1501	<0.13	mg/m3	TN-GCC-34	02/13/00
Toluene	Niosh-1501	<0.13	mg/m3	TN-GCC-34	02/13/00
Vinyltoluene	Niosh-1501	<0.13	mg/m3	TN-GCC-34	02/13/00
Xylenes, Total	Niosh-1501	<0.13	mg/m3	TN-GCC-34	02/13/00



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CLIENT: GENERAL ELECTRIC COMPANY ***

CLIENT'S SAMPLE ID: B-15

AES sample #: 000211HA02

Date Sampled: 02/11/00

Date sample received: 02/11/00

Samples taken by: T.L.Abbott AES Location: GE Pittsfield
MATRIX: Air composite

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Total Hydrocarbons	Niosh-1501	<1.3	mg/m3	TN-GCC-34	02/13/00



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CLIENT: GENERAL ELECTRIC COMPANY ***
 CLIENT'S SAMPLE ID: B-16
 AES sample #: 000211HA03

Date Sampled: 02/11/00
 Date sample received: 02/11/00
 Samples taken by: T.L.Abbott AES Location: GE Pittsfield
 MATRIX: Air composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTE/REF</u>	<u>TEST DATE</u>
Air Volume		68	Liters	TA	02/11/00
Benzene <i>108 ppm</i>	Niosh-1500	0.25	mg/m3	TN-GCC-34	02/13/00
Cyclohexane <i>OSHA 1 ppm</i>	Niosh-1500	<0.15	mg/m3	TN-GCC-34	02/13/00
Cyclohexene	Niosh-1500	<0.15	mg/m3	TN-GCC-34	02/13/00
Heptane	Niosh-1500	<0.15	mg/m3	TN-GCC-34	02/13/00
Hexane	Niosh-1500	<0.15	mg/m3	TN-GCC-34	02/13/00
Methyl Cyclohexane	Niosh-1500	<0.15	mg/m3	TN-GCC-34	02/13/00
Octane	Niosh-1500	<0.15	mg/m3	TN-GCC-34	02/13/00
Pentane	Niosh-1500	<0.15	mg/m3	TN-GCC-34	02/13/00
Toluene <i>OSHA 200 ppm</i>	Niosh-1500	0.40	mg/m3	TN-GCC-34	02/13/00
Benzene <i>• 1 ppm</i>	Niosh 1501	0.25	mg/m3	TN-GCC-34	02/13/00
Cumene	Niosh-1501	<0.15	mg/m3	TN-GCC-34	02/13/00
p-tert-Butyltoluene	Niosh-1501	<0.15	mg/m3	TN-GCC-34	02/13/00
Ethylbenzene	Niosh-1501	0.15	mg/m3	TN-GCC-34	02/13/00
a-Methylstyrene <i>OSHA 435 mg/m³</i>	Niosh-1501	<0.15	mg/m3	TN-GCC-34	02/13/00
Naphthalene	Niosh-1501	<0.15	mg/m3	TN-GCC-34	02/13/00
Styrene	Niosh-1501	<0.15	mg/m3	TN-GCC-34	02/13/00
Toluene	Niosh-1501	0.40	mg/m3	TN-GCC-34	02/13/00
Vinyltoluene	Niosh-1501	<0.15	mg/m3	TN-GCC-34	02/13/00
Xylenes, Total <i>OSHA 435 mg/m³</i>	Niosh-1501	0.21	mg/m3	TN-GCC-34	02/13/00



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CLIENT: GENERAL ELECTRIC COMPANY ***
 CLIENT'S SAMPLE ID: B-16
 AES sample #: 000211HA03

Date Sampled: 02/11/00
 Date sample received: 02/11/00
 Samples taken by: T.L.Abbott AES Location: GE Pittsfield
 MATRIX: Air composite

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Total Hydrocarbons	Niosh-1501	<100	ng/m3	TN-GCC-34	02/13/00



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CLIENT: GENERAL ELECTRIC COMPANY ***

CLIENT'S SAMPLE ID: VOC Blank

AES sample #: 000211HA04

Samples taken by: T.L.Abbott AES
MATRIX: Air

Date Sampled: 02/11/00

Date sample received: 02/11/00

Location: GE Pittsfield composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Benzene	Niosh-1500	<10	ug	TN-GCC-34	02/13/00
Cyclohexane	Niosh-1500	<10	ug	TN-GCC-34	02/13/00
Cyclohexene	Niosh-1500	<10	ug	TN-GCC-34	02/13/00
Heptane	Niosh-1500	<10	ug	TN-GCC-34	02/13/00
Hexane	Niosh-1500	<10	ug	TN-GCC-34	02/13/00
Methyl Cyclohexane	Niosh-1500	<10	ug	TN-GCC-34	02/13/00
Octane	Niosh-1500	<10	ug	TN-GCC-34	02/13/00
Pentane	Niosh-1500	<10	ug	TN-GCC-34	02/13/00
Toluene	Niosh-1500	<10	ug	TN-GCC-34	02/13/00
Benzene	Niosh 1501	<10	ug	TN-GCC-34	02/13/00
Cumene	Niosh-1501	<10	ug	TN-GCC-34	02/13/00
p-tert-Butyltoluene	Niosh-1501	<10	ug	TN-GCC-34	02/13/00
Ethylbenzene	Niosh-1501	<10	ug	TN-GCC-34	02/13/00
a-Methylstyrene	Niosh-1501	<10	ug	TN-GCC-34	02/13/00
Naphthalene	Niosh-1501	<10	ug	TN-GCC-34	02/13/00
Styrene	Niosh-1501	<10	ug	TN-GCC-34	02/13/00
Toluene	Niosh-1501	<10	ug	TN-GCC-34	02/13/00
Vinyltoluene	Niosh-1501	<10	ug	TN-GCC-34	02/13/00
Xylenes, Total	Niosh-1501	<10	ug	TN-GCC-34	02/13/00
Total Hydrocarbons	Niosh-1501	<100	ug	TN-GCC-34	02/13/00



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CLIENT: GENERAL ELECTRIC COMPANY ***

Date Sampled: 02/11/00

CLIENT'S SAMPLE ID: B-5

Date sample received: 02/11/00

AES sample #: 000211HA05

Samples taken by: T.L.Abbott AES Location: GE Pittsfield

MATRIX: Air

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Air Volume		840	Liters	TA	02/11/00
Acenaphthene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Acenaphthylene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Anthracene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Benzo(a)anthracene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Benzo(b)fluoranthene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Benzo(k)fluoranthene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Benzo(g,h,i)perylene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Benzo(a)pyrene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Benzo (e) pyrene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Chrysene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Dibenzo(a,h)anthracene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Fluoranthene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Fluorene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Indeno(1,2,3-cd)pyrene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Naphthalene	Niosh-5515	<0.066	mg/m3	TN-GCC-34	02/13/00
Phenanthrene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Pyrene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00



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CLIENT: GENERAL ELECTRIC COMPANY ***
 CLIENT'S SAMPLE ID: B-12
 AES sample #: 000211HA06

Date Sampled: 02/11/00
 Date sample received: 02/11/00
 Samples taken by: T.L.Abbott AES Location: GE Pittsfield
 MATRIX: Air composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Air Volume		776	Liters	TA	02/11/00
Acenaphthene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Acenaphthylene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Anthracene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Benzo(a)anthracene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Benzo(b)fluoranthene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Benzo(k)fluoranthene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Benzo(g,h,i)perylene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Benzo(a)pyrene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Benzo (e) pyrene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Chrysene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Dibenzo(a,h)anthracene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Fluoranthene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Fluorene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Indeno(1,2,3-cd)pyrene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Naphthalene	Niosh-5515	0.045	mg/m3	TN-GCC-34	02/13/00
Phenanthrene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Pyrene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00

50mg/m³



Experience is the solution

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CLIENT: GENERAL ELECTRIC COMPANY ***
 CLIENT'S SAMPLE ID: B-14
 AES sample #: 000211HA07

Date Sampled: 02/11/00
 Date sample received: 02/11/00
 Samples taken by: T.L. Abbott AES Location: GE Pittsfield
 MATRIX: Air composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Air Volume		775	Liters	TA	02/11/00
Acenaphthene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Acenaphthylene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Anthracene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Benzo(a)anthracene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Benzo(b)fluoranthene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Benzo(k)fluoranthene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Benzo(g,h,i)perylene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Benzo(a)pyrene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Benzo (e) pyrene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Chrysene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Dibenzo(a,h)anthracene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Fluoranthene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Fluorene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Indeno(1,2,3-cd)pyrene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Naphthalene	Niosh-5515	0.246	mg/m3	TN-GCC-34	02/13/00
Phenanthrene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00
Pyrene	Niosh-5515	<0.006	mg/m3	TN-GCC-34	02/13/00

50 mg/m³



Experience is the solution

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CLIENT: GENERAL ELECTRIC COMPANY ***

CLIENT'S SAMPLE ID: CT Blank

AES sample #: 000211HA08

Samples taken by: T.L.Abbott AES
MATRIX: Air

Date Sampled: 02/11/00

Date sample received: 02/11/00

Location: GE Pittsfield composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Acenaphthene	Niosh-5515	<5	ug	TN-GCC-34	02/13/00
Acenaphthylene	Niosh-5515	<5	ug	TN-GCC-34	02/13/00
Anthracene	Niosh-5515	<5	ug	TN-GCC-34	02/13/00
Benzo(a)anthracene	Niosh-5515	<5	ug	TN-GCC-34	02/13/00
Benzo(b)fluoranthene	Niosh-5515	<5	ug	TN-GCC-34	02/13/00
Benzo(k)fluoranthene	Niosh-5515	<5	ug	TN-GCC-34	02/13/00
Benzo(g,h,i)perylene	Niosh-5515	<5	ug	TN-GCC-34	02/13/00
Benzo(a)pyrene	Niosh-5515	<5	ug	TN-GCC-34	02/13/00
Benzo(e)pyrene	Niosh-5515	<5	ug	TN-GCC-34	02/13/00
Chrysene	Niosh-5515	<5	ug	TN-GCC-34	02/13/00
Dibenzo(a,h)anthracene	Niosh-5515	<5	ug	TN-GCC-34	02/13/00
Fluoranthene	Niosh-5515	<5	ug	TN-GCC-34	02/13/00
Fluorene	Niosh-5515	<5	ug	TN-GCC-34	02/13/00
Indeno(1,2,3-cd)pyrene	Niosh-5515	<5	ug	TN-GCC-34	02/13/00
Naphthalene	Niosh-5515	<5	ug	TN-GCC-34	02/13/00
Phenanthrene	Niosh-5515	<5	ug	TN-GCC-34	02/13/00
Pyrene	Niosh-5515	<5	ug	TN-GCC-34	02/13/00



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CLIENT: GENERAL ELECTRIC COMPANY ***

Date Sampled: 02/11/00

CLIENT'S SAMPLE ID: Detection Limits

Date sample received: 02/11/00

AES sample #: 000211HA09

Samples taken by: T.L.Abbott AES Location: GE Pittsfield

MATRIX: Air

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTES/REF</u>	<u>TEST DATE</u>
Acenaphthene	Niosh-5515	5	ug	TN-GCC-34	02/13/00
Acenaphthylene	Niosh-5515	5	ug	TN-GCC-34	02/13/00
Anthracene	Niosh-5515	5	ug	TN-GCC-34	02/13/00
Benzo(a)anthracene	Niosh-5515	5	ug	TN-GCC-34	02/13/00
Benzo(b)fluoranthene	Niosh-5515	5	ug	TN-GCC-34	02/13/00
Benzo(k)fluoranthene	Niosh-5515	5	ug	TN-GCC-34	02/13/00
Benzo(g,h,i)perylene	Niosh-5515	5	ug	TN-GCC-34	02/13/00
Benzo(a)pyrene	Niosh-5515	5	ug	TN-GCC-34	02/13/00
Benzo (e) pyrene	Niosh-5515	5	ug	TN-GCC-34	02/13/00
Chrysene	Niosh-5515	5	ug	TN-GCC-34	02/13/00
Dibenzo(a,h)anthracene	Niosh-5515	5	ug	TN-GCC-34	02/13/00
Fluoranthene	Niosh-5515	5	ug	TN-GCC-34	02/13/00
Fluorene	Niosh-5515	5	ug	TN-GCC-34	02/13/00
Indeno(1,2,3-cd)pyrene	Niosh-5515	5	ug	TN-GCC-34	02/13/00
Naphthalene	Niosh-5515	5	ug	TN-GCC-34	02/13/00
Phenanthrene	Niosh-5515	5	ug	TN-GCC-34	02/13/00
Pyrene	Niosh-5515	5	ug	TN-GCC-34	02/13/00
Benzene	Niosh-1500	10	ug	TN-GCC-34	02/13/00
Cyclohexane	Niosh-1500	10	ug	TN-GCC-34	02/13/00
Cyclohexene	Niosh-1500	10	ug	TN-GCC-34	02/13/00



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CLIENT: GENERAL ELECTRIC COMPANY ***

Date Sampled: 02/11/00

CLIENT'S SAMPLE ID: Detection Limits

Date sample received: 02/11/00

AES sample #: 000211HA09

Samples taken by: T.L.Abbott AES Location: GE Pittsfield

MATRIX: Air

composite

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTE/REF</u>	<u>TEST DATE</u>
Heptane	Niosh-1500	10	ug	TN-GCC-34	02/13/00
Hexane	Niosh-1500	10	ug	TN-GCC-34	02/13/00
Methyl Cyclohexane	Niosh-1500	10	ug	TN-GCC-34	02/13/00
Octane	Niosh-1500	10	ug	TN-GCC-34	02/13/00
Pentane	Niosh-1500	10	ug	TN-GCC-34	02/13/00
Toluene	Niosh-1500	10	ug	TN-GCC-34	02/13/00
Benzene	Niosh 1501	10	ug	TN-GCC-34	02/13/00
Cumene	Niosh-1501	10	ug	TN-GCC-34	02/13/00
p-tert-Butyltoluene	Niosh-1501	10	ug	TN-GCC-34	02/13/00
Ethylbenzene	Niosh-1501	10	ug	TN-GCC-34	02/13/00
a-Methylstyrene	Niosh-1501	10	ug	TN-GCC-34	02/13/00
Naphthalene	Niosh-1501	10	ug	TN-GCC-34	02/13/00
Styrene	Niosh-1501	10	ug	TN-GCC-34	02/13/00
Toluene	Niosh-1501	10	ug	TN-GCC-34	02/13/00
Vinyltoluene	Niosh-1501	10	ug	TN-GCC-34	02/13/00
Xylenes, Total	Niosh-1501	10	ug	TN-GCC-34	02/13/00
Total Hydrocarbons	Niosh-1501	100	ug	TN-GCC-34	02/13/00

APPROVED BY: _____

Report date: 02/14/00

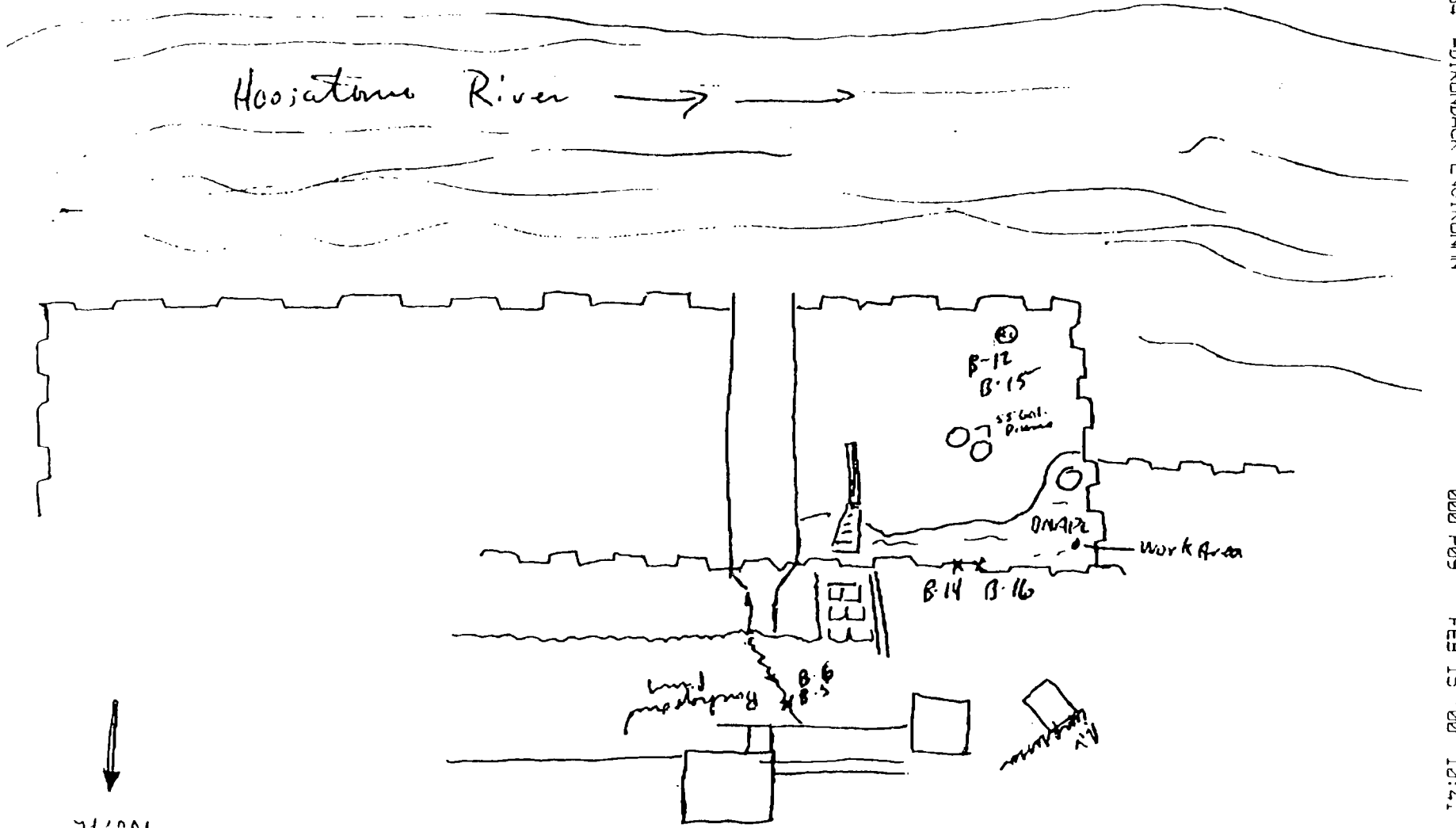
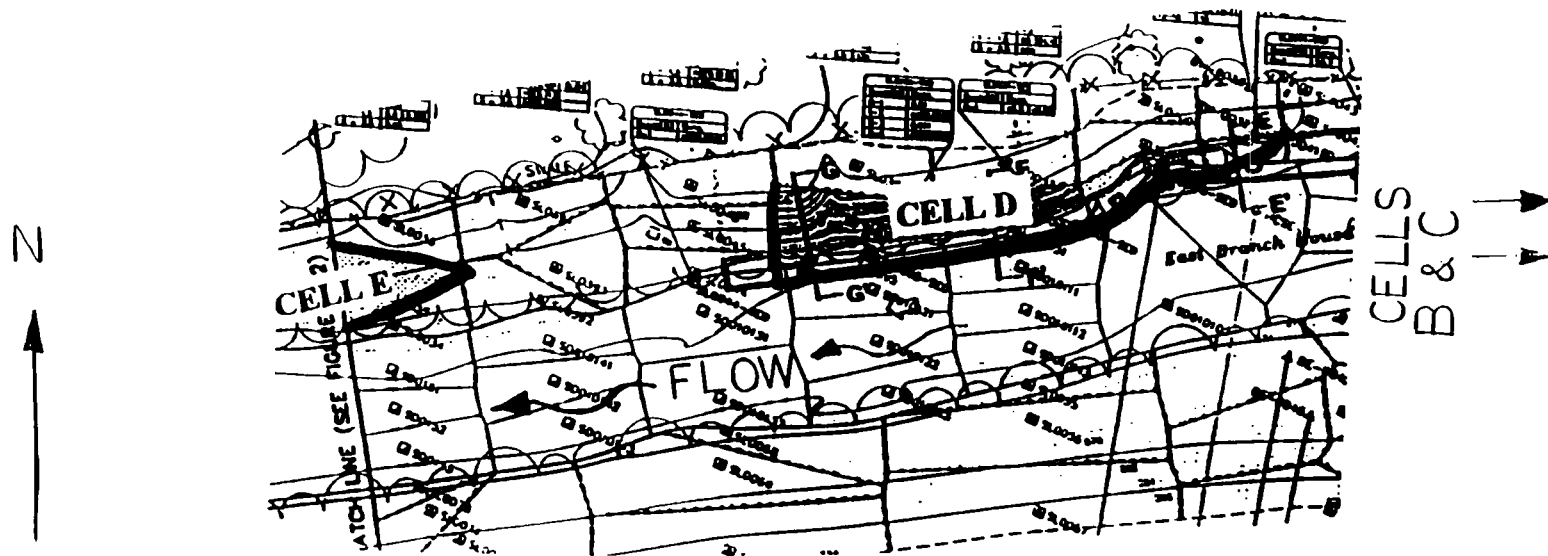
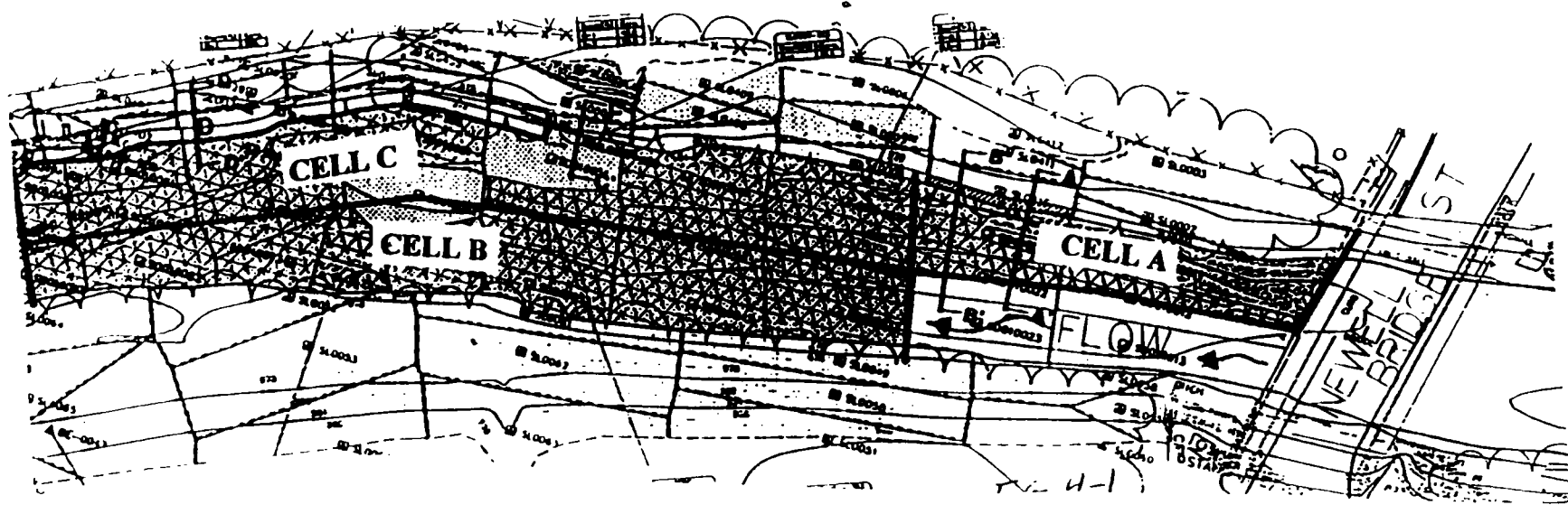


EXHIBIT A
UPPER 1/2 MILE REACH REMOVAL ACTION
LOCATION OF CELLS A, B, C, D and E FOR THE UPSREAM SECTION



**½ MILE RIVER REMOVAL ACTION
MONTHLY PROGRESS REPORT
FEBRUARY, 2000
FIGURE 1 PHOTO DOCUMENTATION**

PHOTO NUMBER: 1

PHOTO LOCATION: Cell C
Looking west, downstream.

PHOTO DESCRIPTION: Restoration in cell C. Work on hold pending results of the DNAPL Investigation Plan. Roughly 230 ft completed.

PHOTO DATE: 02/11/00



PHOTO NUMBER: 2

PHOTO LOCATION:
Looking west (downstream) at cell C

PHOTO DESCRIPTION: River rising and beginning to spill into cell C. New sheetpile wall separating the DNAPL area from the restored part of Cell C. Restoration advanced 50 additional ft. up to the new wall.

PHOTO DATE: 02/28/00 (9:00 AM)



PHOTO NUMBER: 3

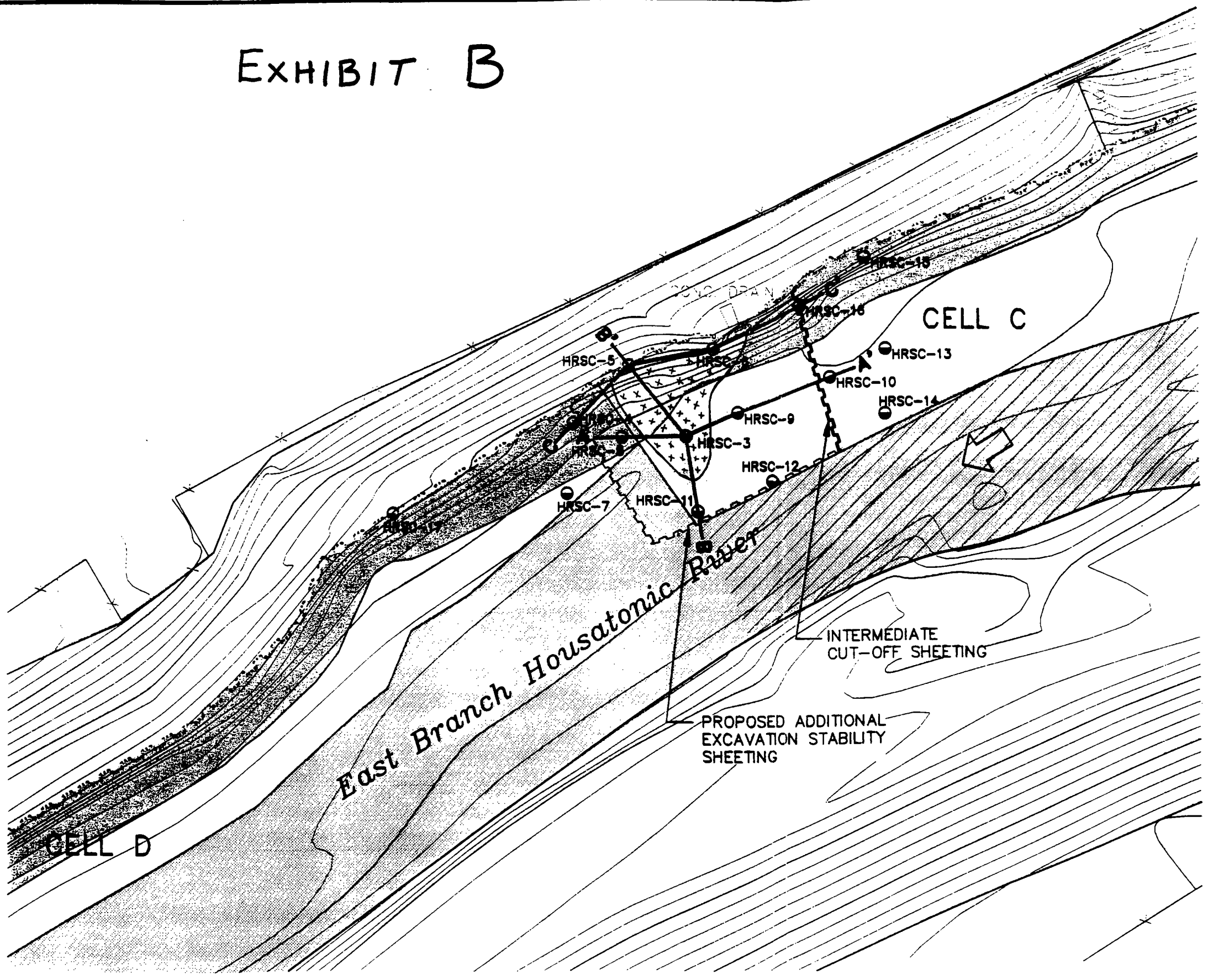
PHOTO LOCATION: Looking south at the river and the DNAPL area of cell C.

PHOTO DESCRIPTION: Near crest/peak of the flood. DNAPL part of cell C had no visible oil sheen. Absorbent booms in place. Note new sheetpile wall at the left of the photo.


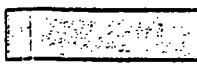



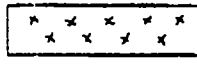
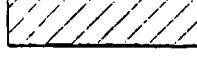
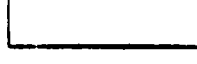
PHOTO DATE: 02/28/00 (1:00 PM)



EXHIBIT B

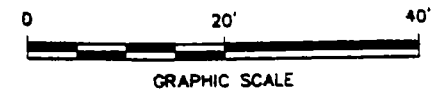



LEGEND:

-  BORING LOCATION FOR DNAPL INVESTIGATION
-  ADDITIONAL EXCAVATION TO OCCUR IN CONJUNCTION WITH EAST STREET AREA 2 SOURCE CONTROL ACTIVITIES
-  EXCAVATION SHEETPILE
-  SOURCE CONTROL SHEETPILE
-  TOP OF BANK
-  SEDIMENT REMOVAL AREA
-  SEDIMENT REMOVAL AND REPLACEMENT COMPLETED
-  APPROXIMATE EXTENT OF DNAPL OBSERVED

NOTES:

1. BASE MAP PROVIDED BY LOCKWOOD MAPPING, INC. PREPARED FROM 1990 AERIAL PHOTOGRAPHY. RIVERBANK AND RIVER BED TOPOGRAPHIC INFORMATION PROVIDED BY BBL FROM OCTOBER 12-23, 1998 FIELD SURVEY.
2. COORDINATE GRID BASED ON 1927 STATE PLANE COORDINATES.
3. ELEVATION DATUM REFERENCED TO NGVD 1929.



GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS REMOVAL ACTION UPPER 1/2-MILE REACH OF HOUSATONIC RIVER	
DNAPL INVESTIGATION RESULTS	
2/25/00	
	BLASLAND, BOUCK & LEE, INC. engineers & scientists
FIGURE 1	

L: ON ** OFF=REF*.SURV*.SED-- ON=**SED-POLY
 P: STD-PCP/BL
 2/24/00 SYR-54-NES AK NES RCB
 20187070/20187804.DWG